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CLAIMS

1. A method for image processing of a digital image (38) comprising pixels having characteristics, comprising applying an image processing filter (17) as a function of the correspondence between each pixel and a first target image characteristic and a second target image characteristic.

2. A method for image processing of a digital image (38) comprising pixels having characteristics, comprising the steps of:

providing an image processing filter (17);

receiving first target image characteristics;

receiving second target image characteristics;

determining for each pixel to be processed, the correspondence between the characteristics of that pixel and the first target image characteristics and second target image characteristics; and

processing the digital image by applying the image processing filter as a function of the determined correspondence between each pixel and the first target image characteristics and second target image characteristics.

3. The method of claims 1 or 2, wherein the image processing filter is a noise reduction filter, a sharpening filter, or a color change filter.

4. The method of claims 1 or 2, further comprising receiving an adjustment parameter, and wherein the application of the image processing filter is also a function of the adjustment parameter.

5. The method of claim 4, where the adjustment parameter is an opacity parameter or a luminosity parameter.

6. The method of claim 4, further comprising the step of providing a graphic user interface for receiving the first target image characteristics, the second target image characteristics, and the adjustment parameter.

7. The method of claim 6, where the graphic user interface for receiving the adjustment parameter comprises a slider.

8. The method of claims 1 or 2, wherein the first target image characteristics, or the second target image characteristics, are an image coordinate, a color, or an image structure.

9. The method of claim 2, further comprising the step of providing a graphic user interface for receiving the first target image characteristics and the second target image characteristics.

10. The method of claim 9, where the graphic user interface comprises indicia representing target image characteristics.

11. The method of claim 9, where the graphic user interface comprises a tool to determine the pixel characteristics of an image pixel.

12. The method of claim 1, further comprising the step of providing camera-specific default settings.

13. An application program interface embodied on a computer-readable medium (106) for execution on a computer (34) for image processing of a digital image (38), the digital image comprising pixels having characteristics, comprising:

a first interface to receive first target image characteristics;

a second interface to receive second target image characteristics;

a third interface to receive a first adjustment parameter corresponding to the first target image characteristics; and

a fourth interface to receive a second adjustment parameter corresponding to the second target image characteristics.

14. The application program interface of claim 13, further comprising a fifth interface comprising indicia representing the first target image characteristics, and a sixth interface comprising indicia representing the second target image characteristics.

15. The application program interface of claim 13, further comprising a tool to determine the pixel characteristics of an image pixel.

16. The application program interface of claim 13, where the third interface and the fourth interface each comprise a slider.

17. A system (100) for image processing of a digital image (38), the digital image comprising pixels having characteristics, comprising:

a processor (102),

a memory (104) in communication with the processor, and

a computer readable medium (106) in communication with the processor, the computer readable medium having contents for causing the processor to perform the steps of:

receiving first target image characteristics;

receiving second target image characteristics;

determining for each pixel to be processed, the correspondence between the characteristics of that pixel and the first target image characteristics and second target image characteristics; and

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processing the digital image by applying the image processing filter as a function of the determined correspondence between each pixel and the first target image characteristics and second target image characteristics.

18. The system of claim 17, the computer readable medium further having contents for causing the processor to perform the steps of receiving a first adjustment parameter corresponding to the first target image characteristics and receiving a second adjustment parameter corresponding to the second target image characteristics.

19. The system of claim 17, further comprising a set of camera-specific default instructions embodied on a computer-readable medium for execution on a computer.

20. A set of camera-specific default instructions embodied on a computer-readable medium (106) for execution on a computer (34) for image processing of a digital image (38), using the method of claim 1 or 2.

21. A set of camera-specific default instructions for setting the state of the application program interface of claim 13, embodied on a computer-readable medium (106) for execution on a computer.

22. A method for image processing of a digital image (38) comprising pixels having characteristics, comprising applying an image processing filter (17) as a function of the correspondence between each pixel, the received target image characteristic, and the input received from a user pointing device.

23. A method for image processing of a digital image (38) comprising pixels having characteristics, comprising the steps of:

providing an image processing filter (17);

receiving a target image characteristic;

receiving a coordinate from a user pointing device (36);

determining for each pixel to be processed, the correspondence between the characteristics of that pixel, the target image characteristic, and the received coordinates; and

processing the digital image by applying the image processing filter as a function of the determined correspondence between each pixel, the target image characteristic, and the received coordinates.

24. The method of claims 22 or 23, wherein the image processing filter is a noise reduction filter, a sharpening filter, or a color change filter.

25. The method of claim 23, further comprising the step of providing a graphic user interface for receiving the target image characteristic.

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26. The method of claim 25, where the graphic user interface comprises indicia representing the target image characteristic.

27. The method of claims 22 or 23, wherein the target image characteristic is an image coordinate, a color, or an image structure.

28. An application program interface embodied on a computer-readable medium (106) for execution on a computer (34) for image processing of a digital image (38), the digital image comprising pixels having characteristics, comprising:

a first interface to receive a target image characteristic; and

a second interface to receive a coordinate from a user pointing device (36).

29. A system (200) for image processing of a digital image (38), the digital image comprising pixels having characteristics, comprising:

a processor (102),

a memory (104) in communication with the processor,

a user pointing device (36), and

a computer readable medium (106) in communication with the processor, the computer readable medium having contents for causing the processor to perform the steps of:

receiving a target image characteristic;

receiving coordinates from the user pointing device;

determining for each pixel to be processed, the correspondence between the characteristics of that pixel, the target image characteristic, and the received coordinates; and

processing the digital image by applying the image processing filter as a function of the determined correspondence between each pixel, the target image characteristic and received coordinates.